

I CLAIM:

1. A blood pumping device comprising:

05 a receptacle including a chamber formed therein for receiving blood, and including a non-valved inlet opening for coupling to an aorta of a patient and for receiving blood from said aorta, and including a non-valved outlet opening for outward flowing of the blood, said receptacle including a surface having a peripheral portion and having a port provided therein,

10 a diaphragm received in said chamber of said receptacle, and including a space formed therein and including a peripheral portion coupled to said peripheral portion of said surface of said receptacle, and

15 means for pumping said diaphragm to draw the blood into said chamber of said receptacle and to pump the blood in said chamber of said receptacle out of said inlet opening and said outlet opening of said receptacle.

05 2. The blood pumping device according to claim 1, wherein said pumping means includes a pump coupled to said port of said receptacle for shrinking said diaphragm to draw the blood into said chamber of said receptacle, and for expanding said diaphragm to force and to pump the blood in said chamber of said receptacle out of said inlet opening and said outlet opening of said receptacle.